

**Fig. 1**

Photographs of the electrophoresis gels obtained in the RFLP analysis  
of BASB019

Fig. 1A

P6 AclI

2931 2905 2907 2909 2911  
25bp 2904 2906 2908 2910

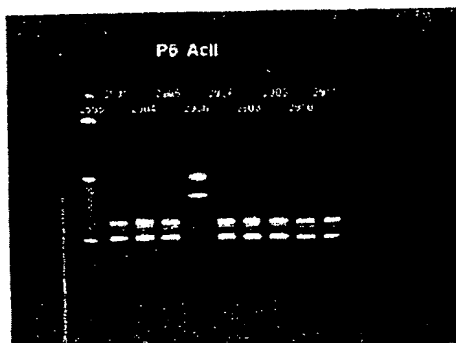


Fig. 1B

P6 AclI

2912 2926 2956 2969  
25bp 2913 2931 2960 2975

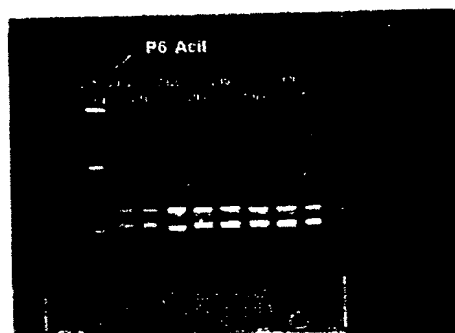


Fig. 1C

P6 AluI

2931 2905 2907 2909 2911  
25bp 2904 2906 2908 2910

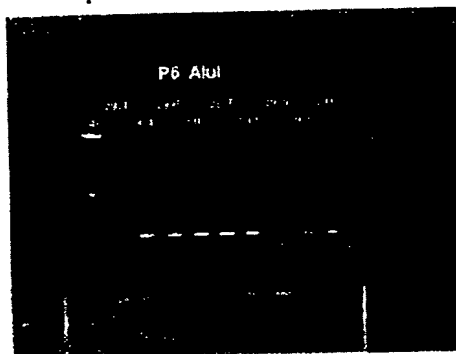


Fig. 1D

P6 AluI

2912 2926 2956 2969  
25bp 2913 2931 2960 2975

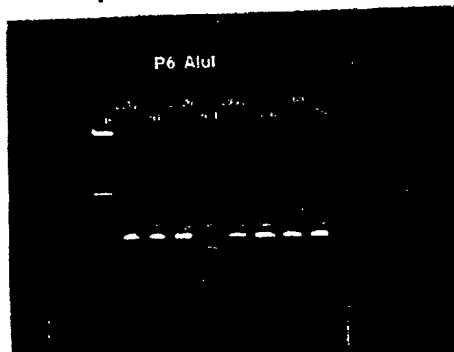


Fig. 1E

P6 BbvI

2931 2905 2907 2909 2911  
25bp 2904 2906 2908 2910

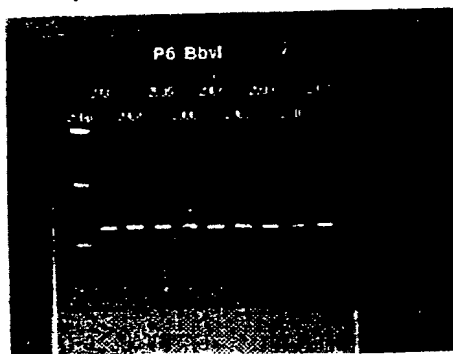
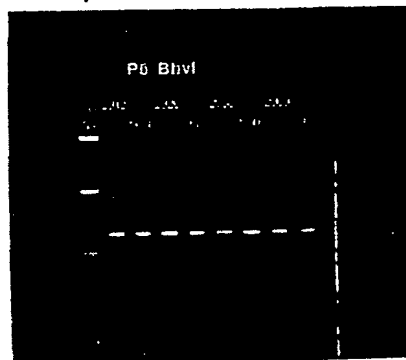


Fig. 1F

P6 BbvI

2912 2926 2956 2969  
25bp 2913 2931 2960 2975





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Fig. 1 (cont)

Fig. 1G

P6 MaeII

25bp 2931 2904 2905 2906 2907 2908 2909 2910 2911

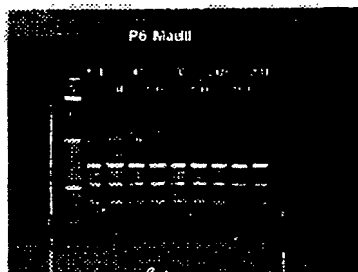


Fig. 1H

P6 MaeIII

25bp 2912 2913 2926 2931 2956 2960 2969 2975

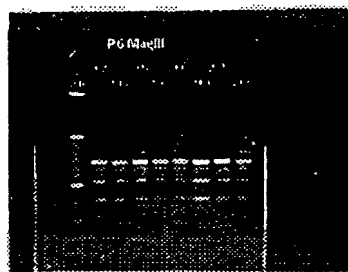


Fig. 1I

P6 MseI

25bp 2931 2904 2905 2906 2907 2908 2909 2910 2911

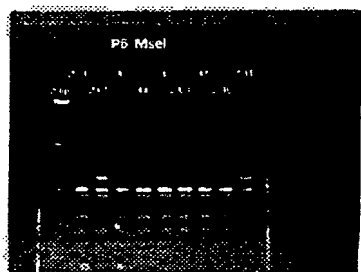


Fig. 1J

P6 MseI

25bp 2912 2913 2926 2931 2956 2960 2969 2975

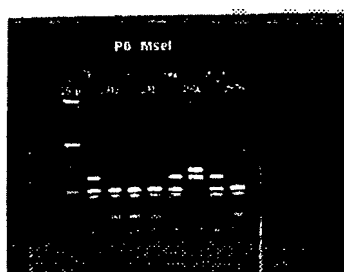


Fig. 1K

P6 RsaI

25bp 2931 2904 2905 2906 2907 2908 2909 2910 2911

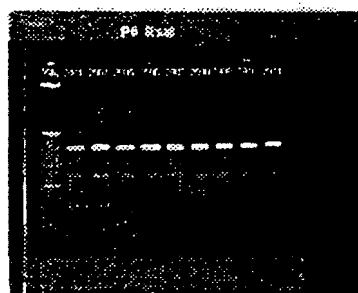
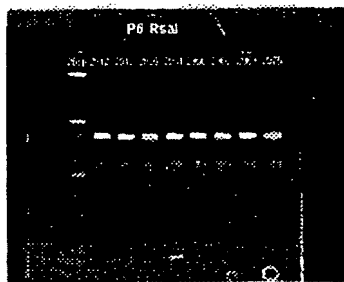


Fig. 1L

P6 RsaI

25bp 2912 2913 2926 2931 2956 2960 2969 2975





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Figure 2A Alignment of the BASB019 polynucleotide sequences.

Identity to SeqID No:1 is indicated by a dot.

```
          *          20          *          40          *
Seqid1 : ATGATGTTACATATTCAAATTGCCGCCGCTGCCGCCGCTTTATCGGTACT
: 50
Seqid3 : .....
: 50
Seqid5 : .....
: 50
Seqid7 : .....T.....
: 50
```

```
          60          *          80          *          100
Seqid1 : AACTTTTATGACAGGCTGTGCCAATAAATCAACAAGTCAAGTTATGGTTG
: 100
Seqid3 : .....
: 100
Seqid5 : .....
: 100
Seqid7 : .....
: 100
```

```
          *          120          *          140          *
Seqid1 : CTCCTAATGCACCCACAGGTTACACTGGGGTTATCTATACTGGTGTTGCA
: 150
Seqid3 : .....
: 150
Seqid5 : .....
: 150
Seqid7 : .....G.....G....C.....C.....
: 150
```



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Fig. 2B

```

                160          *          180          *          200
Seqid1 : CCTTTGGTAGATAATGATGAGACCGTTAAGGCTCTGGCAAGCAAGCTACC
: 200
Seqid3 : .....A.....C.....
: 200
Seqid5 : .....TA.C...A..T.....C.....
: 200
Seqid7 : .....C.....T.....C.....
: 200
```

```

                *          220          *          240          *
Seqid1 : CAGTTTGGTTTATTTTGACTTTGATTCTGATGAGATTAAACCGCAAGCTG
: 250
Seqid3 : .....
: 250
Seqid5 : .....
: 250
Seqid7 : .....
: 250
```

```

                260          *          280          *          300
Seqid1 : CTGCCATCTTAGACGAACAAGCACAATTTTAAACCACCAATCAAACAGCT
: 300
Seqid3 : .....
: 300
Seqid5 : .....
: 300
Seqid7 : .....
: 300
```



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Fig. 2C

```

                *           320           *           340           *
Seqid1 : CGTGTTTTGGTTGCAGGTCATACCGATGAGCGTGGTAGTCGTGAGTATAA
: 350
Seqid3 : .....
: 350
Seqid5 : .....
: 350
Seqid7 : .....
: 350
```

```

                360           *           380           *           400
Seqid1 : TATGTCACTGGGGGAACGCCGTGCGGTGGCGGTACGCAACTATTTGCTTG
: 400
Seqid3 : .....T.....
: 400
Seqid5 : .....
: 400
Seqid7 : .....A
: 400
```

```

                *           420           *           440           *
Seqid1 : GTAAAGGCATTAATCAAGCCAGCGTTGAGATTATCAGTTTTGGTGAAGAA
: 450
Seqid3 : .....
: 450
Seqid5 : .....
: 450
Seqid7 : .....C.....
: 450
```



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Fig. 2D

	460	*	480	*	500
Seqid1 :	CGCCCTATCGCATTTGGCACAAATGAAGAAGCATGGTCACAAAATCGTCG				
:	500				
Seqid3 :	.....				
:	500				
Seqid5 :	.....				
:	500				
Seqid7 :	.....				
:	500				

	*	
Seqid1 :	TGCTGAACTGTCTTATTAA	: 519
Seqid3 :	.....	: 519
Seqid5 :	.....	: 519
Seqid7 :	.....	: 519



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Figure 3<sup>A</sup>: Alignment of the BASB019 polypeptide sequences.  
Identity to SeqID No:2 is indicated by a dot.

```

                *           20           *           40           *
Seqid2 : MMLHIQIAAAAAALSVLTFMTGCANKSTSQVMVAPNAPTGYTGVIYTGVA
: 50
Seqid4 : .....
: 50
Seqid6 : .....
: 50
Seqid8 : .....A.....
: 50
```

```

                60           *           80           *           100
Seqid2 : PLVDNDETVKALASKLPSLVYFDFDSDEIKPQAAAILDEQAQFLTTNQTA
: 100
Seqid4 : .....T.....
: 100
Seqid6 : .....I.T...T.....
: 100
Seqid8 : .....T.....
: 100
```

```

                *           120           *           140           *
Seqid2 : RVLVAGHTDERGSREYNMSLGERRAVAVRNYLLGKGINQASVEIISFGEE
: 150
Seqid4 : .....
: 150
Seqid6 : .....
: 150
Seqid8 : .....S.....
: 150
```



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Fig. 3B

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\*

Seqid2 : RPIAFGTNEEAWSQNRRAELSY : 172  
Seqid4 : ..... : 172  
Seqid6 : ..... : 172  
Seqid8 : ..... : 172

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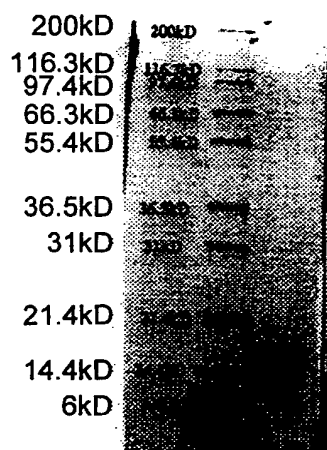




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## Fig.4

Coomasie stained SDS-PAGE of BASB019 protein

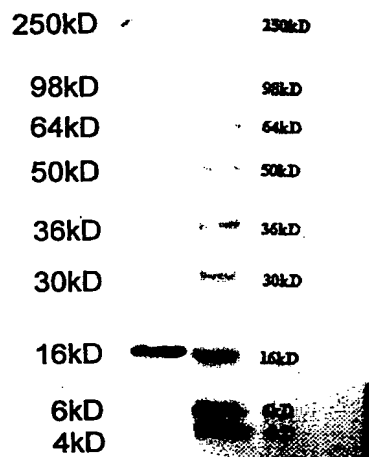




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## Fig.5

Western-blot with tetra-His antibody of BASB019 protein





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## Fig.6

Western-blot of purified recombinant BSAB019 protein probed with the corresponding anti-recombinant protein sera at 1:200

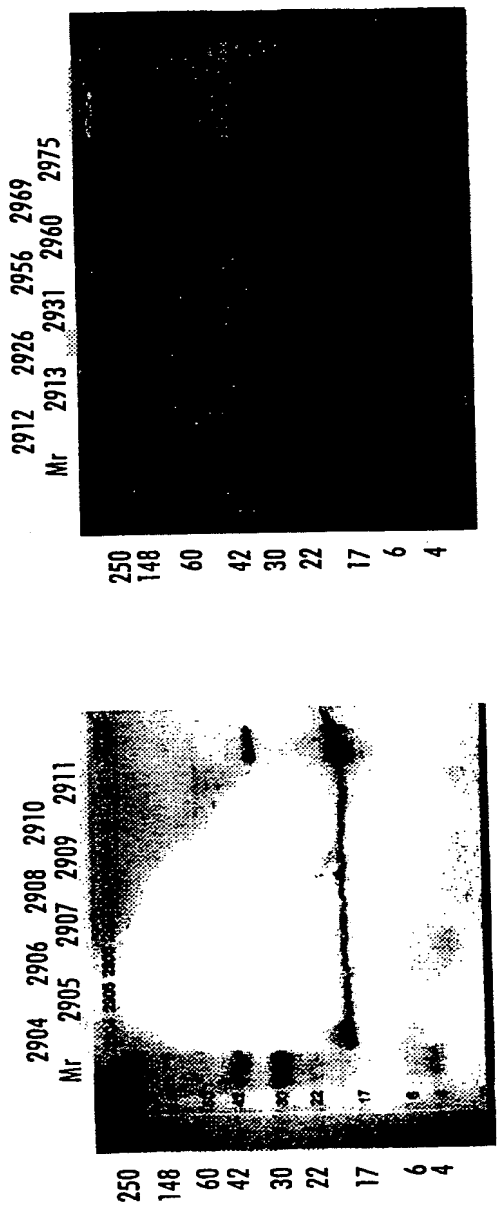
	1	2	3	4	5	Lanes
kDa						
250						1 MW Marker
148						2 CovRb 252 pre
						3 CovRb 252 post
60						4 CovRb 254 pre
42						5 CovRb 254 post
30						
22						
17						
6						
4						

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# Fig.7

Western-blot of whole cell lysates of 16 strains of M. Catarrhalis using pooled sera  
 against the recombinant BASB019 protein. Sera was diluted 1:2000





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## Fig.8

Western-blot of purified recombinant BSAB019 protein probed with pooled human convalescent sera at 1:100

	1	2	3	4	5	
kDa						Lanes
250						1 MW Marker
148						2 SBRb 302 pre
						3 SBRb 302 post
60						4 SBRb 303 pre
12						5 SBRb 303 post
30						
22						
17						
6						
4						